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galois field encryption shift register

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[book] Shift Register Sequences

SW Golomb, S Golomb - 1981 - Aegean Park Press Laguna Hills, CA, USA

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A digital watermark - all 3 versions »

 RG van Schyndel, AZ Tirkel, CF Osborne - Image Processing, 1994. Proceedings. ICIP-94., IEEE ..., 1994 - [ieeexplore.ieee.org](#)

 ... Conventional techniques involve the **encryption** of a ... generated) form a finite **field** called **Galois Field**. ... order to determine the **shift register** configuration [3 ...

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Public-key cryptosystems based on cubic finite field extensions - all 3 versions »

 G Gong, L Harn - Information Theory, IEEE Transactions on, 1999 - [ieeexplore.ieee.org](#)

 ... Index Terms— Characteristic sequence, cubic finite **field** extension, linear feedback **shift-register** sequence, public-key exchange scheme, RSA-type **encryption**. ...

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Fast Arithmetic for Public-Key Algorithms in Galois Fields with Composite Exponents - all 22 versions »

 C Paar, P Fleischmann, P Soria-Rodríguez - IEEE TRANSACTIONS ON COMPUTERS, 1999 - [doi.ieeecomputersociety.org](#)

 ... elliptic curves) rely on finite **field** multiplication as ... polynomial multiplication modulo the **field** polynomial, is ... is a linear feedback **shift register** (LFSR) of ...

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A Fast VLSI Multiplier for GF (2^m) - all 3 versions »

 P Scott, S Tavares, L Peppard - Selected Areas In Communications, IEEE Journal on, 1986 - [ieeexplore.ieee.org](#)

 ... It is attractive for use in data **encryption** systems where ... For simplicity, the finite **field** GF(24) is used ... is transferred to the output **shift register** (OSR) and ...

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A high speed data encryption processor for public key cryptography

 T Rosati, CS Inc, O Kanata - Custom Integrated Circuits Conference, 1989., Proceedings of ..., 1989 - [ieeexplore.ieee.org](#)

 ... consists of three 593-bit **shift registers** using systolic ... to multiply two numbers in the finite **field**. ... management, authentication, and data **encryption** [7]. In ...

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Feedback shift registers, 2-adic span, and combiners with memory - all 5 versions »

A Klapper, M Goresky - Journal of Cryptology, 1997 - Springer

 ... These are the **shift register** analogues of the Marsaglia-Zaman pseudorandom ... different mathematical toolkit: instead of arithmetic in finite **fields**, we use ...

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An implementation for a fast public-key cryptosystem

GB Agnew, RC Mullin, IM Onyszchuk, SA Vanstone - Journal of Cryptology, 1991 - Springer

 ... discoveries in the structure of finite **fields** used, provide ... the RSA system where the **encryption** exponent E_i ... **field** which does, there are advantages to choosing ...

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Pseudo-random sequences and arrays - all 2 versions »

FJ MacWilliams, NJA Sloane - Proceedings of the IEEE, 1976 - ieeexplore.ieee.org

... 1, together with the zero sequence, are isomorphic to a **field** with 2^m ... PSEUDO-RANDOM SEQUENCES A. The **Shift Register** To construct a pseudo-random sequence of ...

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[A High-Performance Reconfigurable Elliptic Curve Processor for GF \(2^m\)](#) - [all 23 versions »](#)

G Orlando, C Paar - Cryptographic Hardware and Embedded Systems—CHES, 2000 - Springer

... private-key algorithms for bulk data **encryption** after that ... is the hardware that computes the finite **field** operations ... For the **field** polynomials recommended for ...

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Key authors: [S Golomb](#) - [R van Schyndel](#) - [A Tirkel](#) - [C Osborne](#) - [C Paar](#)

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